WHAT IS CLAIMED IS:

- 1. A scanning microscope comprising:
 - a light source that emits an exciting light beam which is suitable for exciting an energy state in the specimen and that emits a stimulating light beam for generating stimulated emission in the specimen, whereby the exciting light beam and the stimulating light beam overlap in a focal region at least partially,
 - at least one detector for detection of the emitted light proceeding from the specimen and
 - a module that is positionable in the beam path of the scanning microscope and that comprises multiple optical elements which shape the stimulating light beam.
- 2. The scanning microscope according to Claim 1, wherein the module comprises a housing.
- 3. The scanning microscope according to Claim 1, further comprising an alignment device for alignment of the module with respect to the scanning microscope.
- 4. The scanning microscope according to Claim 1, further comprising banking elements which define a working position of the module with respect to the scanning microscope.
- 5. The scanning microscope, further comprising a bayonet attachment connecting the module to the scanning microscope.
- 6. The scanning microscope according to Claim 1, wherein the module comprises at least a portion of the light source.

- 7. The scanning microscope according to Claim 1, wherein the module comprises optics for spreading or focusing the stimulating light beam.
- 8. The scanning microscope according to Claim 1, wherein the module comprises at least one retardation plate.
- 9. The scanning microscope according to Claim 1, wherein the module comprises means for influencing the shape of the focus of the stimulating light beam in the focal plane.
- 10. The scanning microscope according to Claim 9, wherein the means for influencing the shape of the focus of the stimulating light beam generate an internally hollow focus.
- 11. A module comprising: means for positioning the module in the beam path of the scanning microscope and multiple optical elements for shaping a stimulating light beam.
- 12. The module according to Claim 11, further comprising a housing.
- 13. The module according to Claim 11, wherein the means for positioning comprises a bayonet attachment.
- 14. The module according to Claim 11, further comprising an alignment device for alignment of the module with respect to the scanning microscope.
- 15. The module according to Claim 11, further comprising a light source that emits the stimulating light beam.

- 16. The module according to Claim 15, wherein the light source is a laser.
- 17. The module according to Claim 11, further comprising optics for spreading or focusing the stimulating light beam.
- 18. The module according to Claim 11, further comprising means for influencing the shape of the focus of the stimulating light beam in the focal plane.
- 19. The module according to Claim 18, wherein the means for influencing the shape of the focus of the stimulating light beam consists essentially of a retardation plate.
- 20. The module according to Claim 18, wherein the means for influencing the shape of the focus of the stimulating light beam in the focal plane generate an internally hollow focus.